

WHAT IS CLAIMED IS:

1. A method for securing packet-based communications comprising:  
receiving a stream comprising a plurality of packets, all of the packets having  
an original destination address and an original source address; and  
5 for each of the packets, changing the original destination address to a selected  
one of a plurality of modified destination addresses assigned to a remote device,  
wherein each of the selected modified destination addresses is resolvable by the  
remote device to the original destination address.
- 10 2. The method of Claim 1, wherein, except for a first one of the packets,  
each of the packets is changed to a different one of the modified destination addresses  
than a preceding one of the packets.
- 15 3. The method of Claim 1, wherein no more than ten consecutive packets  
in the stream are changed to an identical one of the modified destination addresses.
- 20 4. The method of Claim 1, further comprising, for each of the packets,  
changing the original source address to a selected one of a plurality of modified  
source addresses, wherein each of the selected modified source addresses is resolvable  
by the remote device to the original source address.
- 25 5. The method of Claim 1, further comprising randomly selecting the  
modified destination address for the packet from a range of available destination  
addresses for the remote device.
6. The method of Claim 1, further comprising selecting the modified  
destination address for the packet from a range of available destination addresses for  
the remote device based on a hopping pattern.

7. The method of Claim 1, wherein the original destination address comprises an internet protocol address and a port, and the modified destination address for the packet comprises a modified internet protocol address and a modified port.

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8. The method of Claim 1, wherein the stream comprises an internet protocol based voice communication session.

9. The method of Claim 1, further comprising:  
10 detecting initiation of the stream;  
identifying the remote device based upon the original destination address; and  
negotiating translation parameters for the stream with the remote device, the translation parameters comprising an algorithm dictating how to select from among the modified destination addresses.

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10. A method for securing packet-based communications comprising:  
negotiating translation parameters for a communication stream with a remote  
device, the translation parameters comprising an original destination address, a  
plurality of available destination addresses, and an algorithm;

5 determining a modified destination address from among the available  
destination addresses according to the algorithm;

receiving a packet having the modified destination address; and

changing the packet to have the original destination address.

10 11. The method of Claim 10, wherein:

the translation parameters further comprise an original source address and a  
plurality of available source addresses; and further comprising:

determining a modified source address from among the available source  
addresses according to the algorithm.

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12. The method of Claim 11, the packet further having the modified source  
address, the method further comprising changing the packet to have the original  
source address.

20 13. The method of Claim 10, wherein the algorithm comprises a hopping  
pattern that dictates how to select from among the available destination addresses.

14. A translation module comprising:

a first interface operable to receive a stream comprising a plurality of packets, all of the packets having an original destination address and an original source address;

5 a controller operable, for each of the packets, to change the original destination address to a selected one of a plurality of modified destination addresses assigned to a remote device, wherein each of the selected modified destination addresses is resolvable by the remote device to the original destination address; and

10 a second interface operable to transmit the changed packets for receipt by the remote device.

15 15. The translation module Claim 14, wherein, except for a first one of the packets, each of the packets is changed to a different one of the modified destination addresses than a preceding one of the packets.

16. The translation module Claim 14, wherein the controller is further operable, for each of the packets, to change the original source address to a selected one of a plurality of modified source addresses, wherein each of the selected modified source addresses is resolvable by the remote device to the original source address.

20 17. The translation module Claim 14, wherein the controller is further operable to select the modified destination address for the packet from a range of available destination addresses for the remote device based on a hopping pattern.

25 18. The translation module Claim 14, wherein the original destination address comprises an internet protocol address and a port, and the modified destination address for the packet comprises a modified internet protocol address and a modified port.

19. The translation module Claim 14, wherein the controller is further operable to:

detect initiation of the stream;

identify the remote device based upon the original destination address; and

5 negotiate translation parameters for the stream with the remote device, the translation parameters comprising an algorithm dictating how to select from among the modified destination addresses.

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20. Logic for securing packet-based communications, the logic encoded in a medium and operable when executed to:

receive a stream comprising a plurality of packets, all of the packets having an original destination address and an original source address; and

5 for each of the packets, change the original destination address to a selected one of a plurality of modified destination addresses assigned to a remote device, wherein each of the selected modified destination addresses is resolvable by the remote device to the original destination address.

10 21. The logic of Claim 20, wherein, except for a first one of the packets, each of the packets is changed to a different one of the modified destination addresses than a preceding one of the packets.

15 22. The logic of Claim 20, further operable, for each of the packets, to change the original source address to a selected one of a plurality of modified source addresses, wherein each of the selected modified source addresses is resolvable by the remote device to the original source address.

20 23. The logic of Claim 20, further operable to select the modified destination address for the packet from a range of available destination addresses for the remote device based on a hopping pattern.

25 24. The logic of Claim 20, wherein the original destination address comprises an internet protocol address and a port, and the modified destination address for the packet comprises a modified internet protocol address and a modified port.

25. The logic of Claim 20, further operable to:
- detect initiation of the stream;
  - identify the remote device based upon the original destination address; and
  - negotiate translation parameters for the stream with the remote device, the
- 5 translation parameters comprising an algorithm dictating how to select from among the modified destination addresses.

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26. A translation module comprising:

means for receiving a stream comprising a plurality of packets, all of the packets having an original destination address and an original source address; and

5 means for for each of the packets, changing the original destination address to a selected one of a plurality of modified destination addresses assigned to a remote device, wherein each of the selected modified destination addresses is resolvable by the remote device to the original destination address.

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27. A method for securing packet-based communications comprising:
- detecting initiation of a communication stream, the communication stream comprising a plurality of packets, all of the packets having an original destination address and an original source address;
- 5 identifying a remote device based upon the original destination address;
- negotiating translation parameters for the communication stream with the remote device, the translation parameters comprising an algorithm dictating how to select from among a plurality of modified destination addresses;
- receiving the packets; and
- 10 for each of the packets, selecting one of the modified destination addresses according to the algorithm and changing the original destination address to the selected modified destination address, wherein each of the selected modified destination addresses is resolvable by the remote device to the original destination address and wherein, except for a first one of the packets, each of the packets is
- 15 changed to a different one of the modified destination addresses than a preceding one of the packets.